AMENDMENTS TO THE CLAIMS

Please amend the present application as follows:

Claims

1. (Currently amended) A light generating device comprising:

a blue light emitting device that emits blue light with peak wavelength within a range from 460 nanometers (nm) to 480 nm; and,

an epoxy placed over the light emitting device, the epoxy including:

a first type of phosphor; and

a second type of phosphor;

wherein the first type of phosphor, when excited, emits red light; and,

wherein the second type of phosphor is $Sr(Ba,Ca)SiO_4:Eu$, which when excited, emits yellow light.

2 - 3. (Canceled)

4. (Original) A light generating device as in claim 1 additionally comprises one of the following:

a mold compound covering the epoxy;

an optical dome covering the epoxy.

5. (Canceled)

6. (Currently amended) A light generating device as in claim 1:

wherein the first type of phosphor is a red phosphor having one of the following chemical formulas:

$CaS:Eu^{2+},Mn^{2+}$,

~~$SrS:Eu^{2+}$~~,

$(Zn,Cd)S:Ag^{+}$,

$Mg_4GeO_{5.5}F:Mn^{4+}$,

$ZnS: Cu^{+}$,

ZnSe:Cu, Cl,

$ZnSe_{1/2}S_{1/2}$:Cu,Cl, and

$BaSi_7N_{10}:Eu^{2+}$[[,]],

~~$(Ca,Sr,Ba)Si_5N_8:Eu^{2+}$; and,~~

~~wherein the second type of phosphor is a yellow phosphor having one of the following chemical formulas:~~

~~$Tb_3Al_5O_{12}:Ce$,~~

~~$Sr(Ba,Ca)SiO_4:Eu$,~~

~~YAG:Ce~~.

7. (Original) A light generating device as in claim 1 additionally comprising:

a second light emitting device; and,

a second epoxy placed over the second light emitting device, the second epoxy including:

the first type of phosphor, and

the second type of phosphor.

8. (Original) A light generating device as in claim 1 additionally comprising:

a second light emitting device;

a second epoxy placed over the second light emitting device, the second epoxy including:

the first type of phosphor, and

the second type of phosphor;

a third light emitting device; and,

a third epoxy placed over the third light emitting device, the third epoxy including:

the first type of phosphor, and

the second type of phosphor.

9. (Original) A light generating device as in claim 1, wherein the light emitting device is mounted on one of the following:

a printed circuit board;

a lead frame.

10. (Original) A light generating device as in claim 1, wherein the light emitting device is mounted within a printed circuit board substrate.

11 - 13. (Canceled)

14. (Currently amended) A light generating device comprising:

emitting means for emitting blue light with peak wavelength within a range from 460 nanometers (nm) to 480 nm; and,

holding means for holding a first type of phosphor and a second type of phosphor adjacent to the emitting means;

wherein the first type of phosphor, when excited, emits red light; and,

wherein the second type of phosphor is $Sr(Ba,Ca)SiO_4:Eu$, which when excited, emits yellow light.

15 -17. (Canceled)

18. (Currently amended) A light generating device as in claim 14 ~~16~~:

wherein the first type of phosphor is a red phosphor having one of the following chemical formulas:

$CaS:Eu^{2+},Mn^{2+}$,

~~$SrS:Eu^{2+}$,~~

$(Zn,Cd)S:Ag^{+}$,

$Mg_4GeO_{5.5}F:Mn^{4+}$,

$ZnS: Cu^{+}$,

ZnSe:Cu, Cl,

$ZnSe_{1/2}S_{1/2}$:Cu,Cl,

$BaSi_7N_{10}:Eu^{2+}$[[,]],

~~$(Ca,Sr,Ba)Si_5N_8:Eu^{2+}$; and,~~

~~wherein the second type of phosphor is a yellow phosphor having one of the following chemical formulas:~~

~~$Tb_3Al_5O_{12}:Ce$,~~

~~$Sr(Ba,Ca)SiO_4:Eu$,~~

~~YAG:Ce~~.

19. (Original) A light generating device as in claim 14, wherein the emitting means is mounted on one of the following:

a printed circuit board;

a lead frame.

20. (Original) A light generating device as in claim 14, wherein the emitting means is mounted within a printed circuit board substrate.

21. (New) A light generating device comprising:

a blue light emitting device that emits blue light with peak wavelength within a range from 460 nanometers (nm) to 480 nm; and,

an epoxy placed over the light emitting device, the epoxy including:

a first type of phosphor; and

a second type of phosphor;

wherein the first type of phosphor, when excited, emits green light; and,

wherein the second type of phosphor, when excited, emits yellow light.

22. (New) The light generating device of claim 21, wherein the first type of phosphor is $SrGa_2S_4$:Eu.

23. (New) The light generating device of claim 22, wherein the first type of phosphor comprises spherical phosphor particles having a mean particle size ranging from about 1 μm to about 30 μm.

24. (New) The light generating device of claim 21, wherein the first type of phosphor comprises $BaGa_4S_7$:Eu.

25. (New) The light generating device of claim 21, wherein the first type of phosphor is (Sr,Ca,Ba)$(Al,Ga)_2S_4$:Eu; $BaGa_4S_7$:Eu.